

7/3/03

to Applicant

In the Claims:

Please cancel the following claims without prejudice to subsequent renewal: 5, 15, 17, and 72.

Please amend the claims by substituting the following claims for the corresponding previously pending claims of the same number(s):

D6 1. (Twice amended) An isolated nucleic acid comprising a polynucleotide that hybridizes under highly stringent conditions to a SEQ ID NO:1, base pairs 57583-58854, wherein said polynucleotide encodes a protein that has an oxidase activity.

D7 10. (Twice amended) The nucleic acid of claim 9, wherein the sequence of said protein is SEQ ID NO:115.

12. (Twice amended) The nucleic acid of claim 9, wherein said nucleic acid further comprises a nucleic acid encoding a protein encoded by SEQ ID NO:99.

D8 13. (Twice amended) The nucleic acid of claim 9, wherein said nucleic acid further comprises a nucleic acid encoding a protein selected from the group consisting of SEQ ID NO:113, SEQ ID NO:109, and SEQ ID NO:96.

14. (Twice amended) The nucleic acid of claim 9, wherein said nucleic acid further comprises a nucleic acid encoding a protein selected from the group consisting of SEQ ID NO:107, SEQ ID NO:106, SEQ ID NO:102, SEQ ID NO:101, SEQ ID NO:100, SEQ ID NO:98, and SEQ ID NO:97.

D9 21. (Twice amended) An isolated gene cluster comprising a nucleic acid, which nucleic acid comprises open reading frames encoding polypeptides sufficient to direct the assembly of a bleomycin or a bleomycin analogue, wherein a polypeptide of the polypeptides is SEQ ID NO:115.

D10 40. (Twice amended) An expression vector comprising the nucleic acid of any one of claims 1, 2, 3, 9, 10, 12, 13, 14, and 21.